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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/802,521	03/09/2001	Robert Skog	34647-00415USP1	9209

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EXAMINER	
FOX, JAMAL A	

ART UNIT	PAPER NUMBER
2664	

DATE MAILED: 12/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/802,521	SKOG ET AL.	
	Examiner	Art Unit	
	Jamal A Fox	2664	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *09 March 2001*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-25* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-25* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *08 June 2001* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *3/9/2001*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because a period is missing on line 15 after "database". Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-13, 15 and 17-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over McConnell et al. (WO 00/469963).

Referring to claim 1, McConnell et al. discloses a method for associating a MSISDN with a temporary IP address (page 25 lines 11-18, here it is understood that the dynamic IP address is a temporary IP address), comprising the steps of: transmitting a start packet (start accounting, page 25 line 25) to a database (database, page 25 line 26) associated with the service network, the start packet including a MSISDN and a temporary IP address of the mobile terminal; and storing (insert, page 25 line 26) the MSISDN and the temporary IP address in the database (database, page 25 line 26) wherein the MSISDN and the temporary IP address are associated with each other responsive to the start packet, but does not explicitly teach of associating within a service network. However, it would have been obvious to one having ordinary

skill in the art at the time the invention was made to have included associating within a service network to the invention of McConnell et al. because a service network is a network that hosts a number of services for users of a mobile terminal which provides the mobile terminal access to the Internet as suggested on page 1 lines 26-28 of McConnell et al.

Referring to claim 2, McConnell et al. discloses the method of claim 1, further comprising the steps of: transmitting a stop packet (RAS Accounting Stop Message, page 26 lines 1-3) to the database associated with the service network, the stop packet including the MSISDN (MSISDN, page 26 lines 1-5) and the temporary IP address (IP, page 26 lines 1-5) of the mobile terminal; and deleting (deletes, page 26 lines 3-5) the stored MSISDN and the temporary IP address from the database responsive to the stop packet.

Referring to claim 3, McConnell et al. discloses the method of claim 2, wherein the step of transmitting further comprises the step of configuring an access server (page 25 line 27, here it is understood that the context manager 25 is the access server; see also page 19 lines 1-2) to transmit an account stop packet as the stop packet.

Referring to claim 4, McConnell et al. discloses the method of claim 2, wherein the step of transmitting further comprises the step of configuring a RADIUS server (RADIUS server, page 26) to transmit an account stop packet (Stop, page 26) as the stop packet.

Referring to claim 5, McConnell et al. discloses the method of claim 4, further comprising the step of transmitting an acknowledgment packet from a server (RAS 30, page 26 lines 1-3) associated with the database responsive to the stop packet.

Referring to claim 6, McConnell et al. discloses the method of claim 1, wherein the step of transmitting further comprises the step of configuring an access server (page 25 lines 24-27, here it is understood that the context manager 25 is the access server; see also page 19 lines 1-2) to transmit starting packet as the start packet.

Referring to claim 7, McConnell et al. discloses the method of claim 1, wherein the step of transmitting further comprises the step of configuring a RADIUS server (RADIUS, page 25 lines 20-30) to transmit an account starting packet as the start packet.

Referring to claim 8, McConnell et al. discloses the method of claim 7, further comprising the step of transmitting an acknowledgment (response, page 26 lines 1-5) packet from a server associated with the database responsive to the start packet.

Referring to claim 9, McConnell et al. discloses the method of claim 1, comprising the step: receiving a request for a service from the mobile terminal at a third server (page 25 lines 24-27, here it is understood that the context manager 25 is the third server which is the access server; see also page 19 lines 1-2) within the service network; and determining an MSISDN (MSISDN, page 25 line 28) of the mobile terminal by accessing the database (database, page 25 line 26) using the temporary IP address of the mobile terminal.

Referring to claim 10, McConnell et al. discloses the method of claim 9, further comprising the steps of: placing the determined MSISDN into an http header (http header, page 26 line 29 – page 27 line 10) for applications within the service network using http; and transmitting (passed, page 27 lines 9-10) the http header to the application within the service network using http with a data packet.

Referring to claim 11, McConnell et al. discloses the method of claim 9, further comprising the step of accessing a user database (database, page 26 lines 15-20) for user parameters responsive to the determined MSISDN.

Referring to claim 12, McConnell et al. discloses the method of claim 1, wherein the method is used in at least one of authentication (authentication, page 13 lines 1-30) process, a billing (billing, page 33 lines 6-27) process, and a personalization (their particular, page 35 lines 21-27) process.

Referring to claim 13, McConnell et al. discloses a system comprising: a first server (modem server, page 25 lines 24-26) associated for generating a start packet (start accounting, page 25 line 25) responsive (response, page 25 lines 22-25) to an access request (request, page 25 lines 22-25) from a mobile terminal, the start packet containing a MSISDN (MSISDN, page 25 line 25) provided by the mobile terminal and an IP address (IP, page 25 line 25) assigned to the mobile terminal by the first server.

a database (database, page 25 line 26) associated with a network having storage locations for a plurality (pair, page 25 line 26) of MSISDNs and associated assigned IP addresses; and

a second server (page 25 lines 26-29, here it is understood that the Radius Accounting Server is the second server) associated with the network for retrieving the stored MSISDN the database responsive to an IP address in a service request from the mobile terminal, but fails to explicitly teach of a service network. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have included a service network to the invention of McConnell et al. because a service network is a network that hosts a number of services for users of a mobile terminal which provides the mobile terminal access to the Internet as suggested on page 1 lines 26-28 of McConnell et al.

Referring to claim 15, McConnell et al. discloses the system of claim 13, further including a third server (page 25 lines 24-27, here it is understood that the context manager 25 is the third server which is the access server; see also page 19 lines 1-2) within the service network and associated with the database (database, page 25 line 26).

Referring to claim 17, McConnell et al. discloses the system of claim 13, wherein the third server (Fig. 2, ref. sign 25) comprises a RADIUS accounting server (Fig. 2, ref. sign 30).

Referring to claim 18, McConnell et al. discloses the system of claim 13, wherein the third server is configured to: receive the session start packet (start accounting, page 25 line 25) from the first server in response to an access request from the mobile terminal; store (insert, page 25 line 26) the MSISDN (MSISDN, page 25 lines 20-30) number and the temporary IP address (page 25 lines 11-18, here it is understood that

the dynamic IP address is a temporary IP address) in the database (database, page 25 line 26).

Referring to claim 19, McConnell et al. discloses the system of claim 13, wherein the first server further generates a stop packet (stop, page 26 lines 1-5) responsive to termination of a connection with the mobile terminal.

Referring to claim 20, McConnell et al. discloses the system of claim 13, wherein the system associates a MSISDN of a mobile terminal with a temporarily assigned IP address during at least one of an authentication (authentication, page 13 lines 1-30) process, a billing (billing, page 33 lines 6-27) process and a personalization (their particular, page 35 lines 21-27) process.

Referring to claim 21, McConnell et al. discloses a method, comprising the steps of: authenticating (authentication, page 13 lines 11-30) a mobile terminal accessing to a network; generating a start packet (start accounting, page 25 line 25) containing a MSISDN (MSISDN, page 25 line 25) and an IP (IP, page 25 line 25) address of the mobile terminal; storing (insert, page 25 line 26) the MSISDN and the IP address in the start packet in a database (database, page 25 line 26) associated with the network; determining (determine, page 26 lines 20-25) the MSISDN of the mobile terminal using the IP address of the mobile terminal responsive to a request to a server in the network from the mobile terminal, but fails to explicitly teach of a service network. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have included a service network to the invention of McConnell et al. because a service network is a network that hosts a number of services for users of a

mobile terminal which provides the mobile terminal access to the Internet as suggested on page 1 lines 26-28 of McConnell et al.

Referring to claim 22, McConnell et al. discloses the method of claim 21, further including the step of obtaining user parameters (parameters, page 35 lines 20-27) from a user database in the service network using the determined MSISDN.

Referring to claim 23, McConnell et al. discloses the method of claim 21, wherein the step of transmitting further comprises the step of configuring a RADIUS (RADIUS, page 25 lines 20-30) server to transmit an account starting packet (start accounting, page 25 line 25) as the start packet.

Referring to claim 24, McConnell et al. discloses the method of claim 21, further comprising the step of transmitting an acknowledgment (response, page 26 lines 1-5) packet from a server associated with the database responsive to the start packet.

Referring to claim 25, McConnell et al. discloses the method of claim 21, further comprising the steps of: placing the determined MSISDN into an http header (http header, page 26 line 29 – page 27 line 10) for applications within the service network using http; and transmitting (passed, page 27 lines 9-10) the http header to the application within the service network using http with a data packet.

4. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over McConnell et al. (WO 00/469963) in view of Joong (U.S. Patent No. 6,549,776).

Referring to claim 14, McConnell et al. discloses the system of claim 13, but does not explicitly teach wherein the first server is located within a mobile switching center of the wireless network. Joong teaches of the first server being located within a mobile

switching center of the wireless network (col. 5 line 61-col. 6 line 10 and Fig. 1). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to have included the first server being located within a mobile switching center of the wireless network of Joong to the invention of McConnell et al. because cellular telephone networks are served by Mobile Switching Centers as suggested by Joong.

5. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over McConnell et al. (WO 00/469963) in view of Forslow (U.S. Patent No. 6,608,832).

Referring to claim 16, McConnell et al. discloses the system of claim 13, but fails to explicitly teach of the first server comprising an integrated access system server. However, Forslow discloses a first server comprising an integrated access system server in (Fig. 9 ref. sign 118 and col. 15 lines 9-22). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have included the integrated access system of Forslow to the invention of McConnell et al. in order to provide remote authentication to external network entities as suggested by Forslow.

6. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mademann (U.S. Patent No. 6,185,196).

Referring to claim 1, Mademann discloses a method for associating a MSISDN (MSISDN, col. 4 line 33) with a temporary IP address (TMSI, col. 4 lines 33-34) within a service network (service network, col. 1 line 61 and col. 4 line 10), comprising the steps of: transmitting (transmitting, col. 4 line 45) including a temporary IP address (TMSI,

lines 45-46) of the mobile terminal; storing (stored, col. 4 lines 45-52) the MSISDN and the temporary IP address in the database wherein the MSISDN and the temporary IP address are associated with each other responsive to the start packet, but fails to explicitly teach of transmitting a start packet and the start packet including a MSISDN. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have included to the invention transmitting a start packet and the start packet including a MSISDN because the joint transmission of data packets and signalling information is disclosed in (col. 4 lines 37-45).

Conclusion

7. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 305-3988, (for formal communications intended for entry)

Or:

(703) 305-3988 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA. 22202, Sixth Floor (Receptionist).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jamal A. Fox whose telephone number is (571) 272-3143. The examiner can normally be reached on Monday-Friday 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9315 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Jamal A. Fox

Jamal A. Fox